IFWO

```
RAW SEQUENCE LISTING              DATE: 07/29/2004
PATENT APPLICATION:  US/10/820,155    TIME: 11:40:57

        Input Set : A:\Sequence listing.ST25.txt
        Output Set: N:\CRF4\07292004\J820155.raw

 3  <110> APPLICANT: NatImmune A/S
 4         Weilguny, Dietmar
 5         Jensenius, Jens Christian
 6         Kongerslev, Leif
 7         Matthiesen, Finn
 9  <120> TITLE OF INVENTION: Treatment of SARS in individuals
11  <130> FILE REFERENCE: P 774 US00
13  <140> CURRENT APPLICATION NUMBER: US/10/820,155
14  <141> CURRENT FILING DATE: 2004-04-08
16  <160> NUMBER OF SEQ ID NOS: 137
18  <170> SOFTWARE: PatentIn version 3.1
20  <210> SEQ ID NO: 1
21  <211> LENGTH: 652
22  <212> TYPE: PRT
23  <213> ORGANISM: Homo sapiens
25  <400> SEQUENCE: 1
27  Met Ala Thr Ser Met Gly Leu Leu Leu Leu Leu Leu Leu Leu Thr
28  1               5                   10                  15
31  Gln Pro Gly Ala Gly Thr Gly Ala Asp Thr Glu Ala Val Val Cys Val
32              20                  25                  30
35  Gly Thr Ala Cys Tyr Thr Ala His Ser Gly Lys Leu Ser Ala Ala Glu
36              35                  40                  45
39  Ala Gln Asn His Cys Asn Gln Asn Gly Gly Asn Leu Ala Thr Val Lys
40      50                  55                  60
43  Ser Lys Glu Glu Ala Gln His Val Gln Arg Val Leu Ala Gln Leu Leu
44  65              70                  75                  80
47  Arg Arg Glu Ala Ala Leu Thr Ala Arg Met Ser Lys Phe Trp Ile Gly
48              85                  90                  95
51  Leu Gln Arg Glu Lys Gly Lys Cys Leu Asp Pro Ser Leu Pro Leu Lys
52              100                 105                 110
55  Gly Phe Ser Trp Val Gly Gly Gly Glu Asp Thr Pro Tyr Ser Asn Trp
56              115                 120                 125
59  His Lys Glu Leu Arg Asn Ser Cys Ile Ser Lys Arg Cys Val Ser Leu
60      130                 135                 140
63  Leu Leu Asp Leu Ser Gln Pro Leu Leu Pro Ser Arg Leu Pro Lys Trp
64  145             150                 155                 160
67  Ser Glu Gly Pro Cys Gly Ser Pro Gly Ser Pro Gly Ser Asn Ile Glu
68              165                 170                 175
71  Gly Phe Val Cys Lys Phe Ser Phe Lys Gly Met Cys Arg Pro Leu Ala
72              180                 185                 190
75  Leu Gly Gly Pro Gly Gln Val Thr Tyr Thr Thr Pro Phe Gln Thr Thr
76              195                 200                 205
79  Ser Ser Ser Leu Glu Ala Val Pro Phe Ala Ser Ala Ala Asn Val Ala
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/820,155

DATE: 07/29/2004
TIME: 11:40:57

Input Set : A:\Sequence listing.ST25.txt
Output Set: N:\CRF4\07292004\J820155.raw

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 80      210                         215                     220
 83 Cys Gly Glu Gly Asp Lys Asp Glu Thr Gln Ser His Tyr Phe Leu Cys
 84 225                     230                 235                 240
 87 Lys Glu Lys Ala Pro Asp Val Phe Asp Trp Gly Ser Ser Gly Pro Leu
 88                 245                 250                 255
 91 Cys Val Ser Pro Lys Tyr Gly Cys Asn Phe Asn Asn Gly Gly Cys His
 92             260                 265                 270
 95 Gln Asp Cys Phe Glu Gly Gly Asp Gly Ser Phe Leu Cys Gly Cys Arg
 96         275                 280                 285
 99 Pro Gly Phe Arg Leu Leu Asp Asp Leu Val Thr Cys Ala Ser Arg Asn
100     290                 295                 300
103 Pro Cys Ser Ser Ser Pro Cys Arg Gly Gly Ala Thr Cys Val Leu Gly
104 305                 310                 315                 320
107 Pro His Gly Lys Asn Tyr Thr Cys Arg Cys Pro Gln Gly Tyr Gln Leu
108                 325                 330                 335
111 Asp Ser Ser Gln Leu Asp Cys Val Asp Val Asp Glu Cys Gln Asp Ser
112             340                 345                 350
115 Pro Cys Ala Gln Glu Cys Val Asn Thr Pro Gly Gly Phe Arg Cys Glu
116         355                 360                 365
119 Cys Trp Val Gly Tyr Glu Pro Gly Gly Pro Gly Glu Gly Ala Cys Gln
120     370                 375                 380
123 Asp Val Asp Glu Cys Ala Leu Gly Arg Ser Pro Cys Ala Gln Gly Cys
124 385                 390                 395                 400
127 Thr Asn Thr Asp Gly Ser Phe His Cys Ser Cys Glu Glu Gly Tyr Val
128             405                 410                 415
131 Leu Ala Gly Glu Asp Gly Thr Gln Cys Gln Asp Val Asp Glu Cys Val
132             420                 425                 430
135 Gly Pro Gly Gly Pro Leu Cys Asp Ser Leu Cys Phe Asn Thr Gln Gly
136         435                 440                 445
139 Ser Phe His Cys Gly Cys Leu Pro Gly Trp Val Leu Ala Pro Asn Gly
140     450                 455                 460
143 Val Ser Cys Thr Met Gly Pro Val Ser Leu Gly Pro Pro Ser Gly Pro
144 465                 470                 475                 480
147 Pro Asp Glu Glu Asp Lys Gly Glu Lys Glu Gly Ser Thr Val Pro Arg
148             485                 490                 495
151 Ala Ala Thr Ala Ser Pro Thr Arg Gly Pro Glu Gly Thr Pro Lys Ala
152             500                 505                 510
155 Thr Pro Thr Thr Ser Arg Pro Ser Leu Ser Ser Asp Ala Pro Ile Thr
156         515                 520                 525
159 Ser Ala Pro Leu Lys Met Leu Ala Pro Ser Gly Ser Pro Gly Val Trp
160     530                 535                 540
163 Arg Glu Pro Ser Ile His His Ala Thr Ala Ala Ser Gly Pro Gln Glu
164 545                 550                 555                 560
167 Pro Ala Gly Gly Asp Ser Ser Val Ala Thr Gln Asn Asn Asp Gly Thr
168             565                 570                 575
171 Asp Gly Gln Lys Leu Leu Leu Phe Tyr Ile Leu Gly Thr Val Val Ala
172         580                 585                 590
175 Ile Leu Leu Leu Leu Ala Leu Ala Leu Gly Leu Leu Val Tyr Arg Lys
176     595                 600                 605
```

RAW SEQUENCE LISTING   DATE: 07/29/2004
PATENT APPLICATION: US/10/820,155   TIME: 11:40:57

Input Set : A:\Sequence listing.ST25.txt
Output Set: N:\CRF4\07292004\J820155.raw

```
179 Arg Arg Ala Lys Arg Glu Glu Lys Lys Glu Lys Lys Pro Gln Asn Ala
180      610           615           620
183 Ala Asp Ser Tyr Ser Trp Val Pro Glu Arg Ala Glu Ser Arg Ala Met
184 625              630           635              640
187 Glu Asn Gln Tyr Ser Pro Thr Pro Gly Thr Asp Cys
188              645           650
191 <210> SEQ ID NO: 2
192 <211> LENGTH: 742
193 <212> TYPE: PRT
194 <213> ORGANISM: Mus musculus
196 <400> SEQUENCE: 2
198 Met Lys Asp Asp Phe Ala Glu Glu Glu Val Gln Ser Phe Gly Tyr
199 1           5              10              15
202 Lys Arg Phe Gly Ile Gln Glu Gly Thr Gln Cys Thr Lys Cys Lys Asn
203          20           25           30
206 Asn Trp Ala Leu Lys Phe Ser Ile Val Leu Leu Tyr Ile Leu Cys Ala
207      35           40           45
210 Leu Leu Thr Ile Thr Val Ala Ile Leu Gly Tyr Lys Val Val Glu Lys
211      50           55           60
214 Met Asp Asn Val Thr Asp Gly Met Glu Thr Ser His Gln Thr Tyr Asp
215 65           70           75              80
218 Asn Lys Leu Thr Ala Val Glu Ser Asp Leu Lys Lys Leu Gly Asp Gln
219          85           90           95
222 Ala Gly Lys Lys Ala Leu Ser Thr Asn Ser Glu Leu Ser Thr Phe Arg
223          100           105           110
226 Ser Asp Ile Leu Asp Leu Arg Gln Gln Leu Gln Glu Ile Thr Glu Lys
227          115       .       120           125
230 Thr Ser Lys Asn Lys Asp Thr Leu Glu Lys Leu Gln Ala Asn Gly Asp
231      130           135           140
234 Ser Leu Val Asp Arg Gln Ser Gln Leu Lys Glu Thr Leu Gln Asn Asn
235 145           150           155              160
238 Ser Phe Leu Ile Thr Thr Val Asn Lys Thr Leu Gln Ala Tyr Asn Gly
239          165           170           175
242 Tyr Val Thr Asn Leu Gln Gln Asp Thr Ser Val Leu Gln Gly Asn Leu
243          180           185           190
246 Gln Ser Gln Met Tyr Ser Gln Ser Val Val Ile Met Asn Leu Asn Asn
247      195       .       200           205
250 Leu Asn Leu Thr Gln Val Gln Gln Arg Asn Leu Ile Ser Asn Leu Gln
251      210           215           220
254 Gln Ser Val Asp Asp Thr Ser Leu Ala Ile Gln Arg Ile Lys Asn Asp
255 225           230           235              240
258 Phe Gln Asn Leu Gln Gln Val Phe Leu Gln Ala Lys Lys Asp Thr Asp
259          245           250           255
262 Trp Leu Lys Glu Lys Val Gln Ser Leu Gln Thr Leu Ala Ala Asn Asn
263      260           265           270
266 Ser Ala Leu Ala Lys Ala Asn Asn Asp Thr Leu Glu Asp Met Asn Ser
267      275           280           285
270 Gln Leu Ser Ser Phe Thr Gly Gln Met Asp Asn Ile Thr Thr Ile Ser
271      290           295           300
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/820,155

DATE: 07/29/2004
TIME: 11:40:57

Input Set : A:\Sequence listing.ST25.txt
Output Set: N:\CRF4\07292004\J820155.raw

```
274 Gln Ala Asn Glu Gln Ser Leu Lys Asp Leu Gln Asp Leu His Lys Asp
275 305                 310                 315                 320
278 Thr Glu Asn Arg Thr Ala Val Lys Phe Ser Gln Leu Glu Glu Arg Phe
279                 325                 330                 335
282 Gln Val Phe Glu Thr Asp Ile Val Asn Ile Ile Ser Asn Ile Ser Tyr
283                 340                 345                 350
286 Thr Ala His His Leu Arg Thr Leu Thr Ser Asn Leu Asn Asp Val Arg
287         355                 360                 365
290 Thr Thr Cys Thr Asp Thr Leu Thr Arg His Thr Asp Asp Leu Thr Ser
291     370                 375                 380
294 Leu Asn Asn Thr Leu Val Asn Ile Arg Leu Asp Ser Ile Ser Leu Arg
295 385                 390                 395                 400
298 Met Gln Gln Asp Met Met Arg Ser Lys Leu Asp Thr Glu Val Ala Asn
299                 405                 410                 415
302 Leu Ser Val Val Met Glu Glu Met Lys Leu Val Asp Ser Lys His Gly
303                 420                 425                 430
306 Gln Leu Ile Lys Asn Phe Thr Ile Leu Gln Gly Pro Pro Gly Pro Arg
307         435                 440                 445
310 Gly Pro Lys Gly Asp Arg Gly Ser Gln Gly Pro Pro Gly Pro Thr Gly
311     450                 455                 460
314 Asn Lys Gly Gln Lys Gly Glu Lys Gly Glu Pro Gly Pro Pro Gly Pro
315 465                 470                 475                 480
318 Ala Gly Glu Arg Gly Thr Ile Gly Pro Val Gly Pro Pro Gly Glu Arg
319                 485                 490                 495
322 Gly Ser Lys Gly Ser Lys Gly Ser Gln Gly Pro Lys Gly Ser Arg Gly
323                 500                 505                 510
326 Ser Pro Gly Lys Pro Gly Pro Gln Gly Pro Ser Gly Asp Pro Gly Pro
327         515                 520                 525
330 Pro Gly Pro Pro Gly Lys Asp Gly Leu Pro Gly Pro Gln Gly Pro Pro
331     530                 535                 540
334 Gly Phe Gln Gly Leu Gln Gly Thr Val Gly Glu Pro Gly Val Pro Gly
335 545                 550                 555                 560
338 Pro Arg Gly Leu Pro Gly Leu Pro Gly Val Pro Gly Met Pro Gly Pro
339                 565                 570                 575
342 Lys Gly Pro Pro Gly Pro Pro Gly Pro Ser Gly Ala Met Glu Pro Leu
343                 580                 585                 590
346 Ala Leu Gln Asn Glu Pro Thr Pro Ala Ser Glu Val Asn Gly Cys Pro
347         595                 600                 605
350 Pro His Trp Lys Asn Phe Thr Asp Lys Cys Tyr Tyr Phe Ser Leu Glu
351     610                 615                 620
354 Lys Glu Ile Phe Glu Asp Ala Lys Leu Phe Cys Glu Asp Lys Ser Ser
355 625                 630                 635                 640
358 His Leu Val Phe Ile Asn Ser Arg Glu Glu Gln Gln Trp Ile Lys Lys
359                 645                 650                 655
362 His Thr Val Gly Arg Glu Ser His Trp Ile Gly Leu Thr Asp Ser Glu
363                 660                 665                 670
366 Gln Glu Ser Glu Trp Lys Trp Leu Asp Gly Ser Pro Val Asp Tyr Lys
367         675                 680                 685
370 Asn Trp Lys Ala Gly Gln Pro Asp Asn Trp Gly Ser Gly His Gly Pro
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RAW SEQUENCE LISTING   DATE: 07/29/2004
PATENT APPLICATION: US/10/820,155   TIME: 11:40:57

Input Set : A:\Sequence listing.ST25.txt
Output Set: N:\CRF4\07292004\J820155.raw

```
371      690                  695                  700
374 Gly Glu Asp Cys Ala Gly Leu Ile Tyr Ala Gly Gln Trp Asn Asp Phe
375 705                  710                  715                  720
378 Gln Cys Asp Glu Ile Asn Asn Phe Ile Cys Glu Lys Glu Arg Glu Ala
379                  725                  730                  735
382 Val Pro Ser Ser Ile Leu
383              740
386 <210> SEQ ID NO: 3
387 <211> LENGTH: 371
388 <212> TYPE: PRT
389 <213> ORGANISM: Bos taurus
391 <400> SEQUENCE: 3
393 Met Leu Leu Leu Pro Leu Ser Val Leu Leu Leu Leu Thr Gln Pro Trp
394 1                  5                  10                  15
397 Arg Ser Leu Gly Ala Glu Met Lys Ile Tyr Ser Gln Lys Thr Leu Ala
398              20                  25                  30
401 Asn Gly Cys Thr Leu Val Val Cys Arg Pro Pro Glu Gly Gly Leu Pro
402              35                  40                  45
405 Gly Arg Asp Gly Gln Asp Gly Arg Glu Gly Pro Gln Gly Glu Lys Gly
406          50                  55                  60
409 Asp Pro Gly Ser Pro Gly Pro Ala Gly Arg Ala Gly Arg Pro Gly Pro
410 65                  70                  75                  80
413 Ala Gly Pro Ile Gly Pro Lys Gly Asp Asn Gly Ser Ala Gly Glu Pro
414                  85                  90                  95
417 Gly Pro Lys Gly Asp Thr Gly Pro Pro Gly Pro Pro Gly Met Pro Gly
418              100                 105                 110
421 Pro Ala Gly Arg Glu Gly Pro Ser Gly Lys Gln Gly Ser Met Gly Pro
422          115                 120                 125
425 Pro Gly Thr Pro Gly Pro Lys Gly Asp Thr Gly Pro Lys Gly Gly Met
426          130                 135                 140
429 Gly Ala Pro Gly Met Gln Gly Ser Pro Gly Pro Ala Gly Leu Lys Gly
430 145                 150                 155                 160
433 Glu Arg Gly Ala Pro Gly Glu Leu Gly Ala Pro Gly Ser Ala Gly Val
434              165                 170                 175
437 Ala Gly Pro Ala Gly Ala Ile Gly Pro Gln Gly Pro Ser Gly Ala Arg
438              180                 185                 190
441 Gly Pro Pro Gly Leu Lys Gly Asp Arg Gly Asp Pro Gly Glu Arg Gly
442          195                 200                 205
445 Ala Lys Gly Glu Ser Gly Leu Ala Asp Val Asn Ala Leu Lys Gln Arg
446          210                 215                 220
449 Val Thr Ile Leu Glu Gly Gln Leu Gln Arg Leu Gln Asn Ala Phe Ser
450 225                 230                 235                 240
453 Arg Tyr Lys Lys Ala Val Leu Phe Pro Asp Gly Gln Ala Val Gly Lys
454              245                 250                 255
457 Lys Ile Phe Lys Thr Ala Gly Ala Val Lys Ser Tyr Ser Asp Ala Gln
458              260                 265                 270
461 Gln Leu Cys Arg Glu Ala Lys Gly Gln Leu Ala Ser Pro Arg Ser Ala
462          275                 280                 285
465 Ala Glu Asn Glu Ala Val Ala Gln Leu Val Arg Ala Lys Asn Asn Asp
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/29/2004
PATENT APPLICATION: **US/10/820,155**   TIME: 11:40:59

    Input Set : **A:\Sequence listing.ST25.txt**
    Output Set: **N:\CRF4\07292004\J820155.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:37; Xaa Pos. 7
Seq#:75; Xaa Pos. 7
Seq#:94; Xaa Pos. 91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106
Seq#:94; Xaa Pos. 107,108,109,110,111,112,113,114,115,116

VERIFICATION SUMMARY   DATE: 07/29/2004
PATENT APPLICATION: **US/10/820,155**   TIME: 11:40:59

Input Set : **A:\Sequence listing.ST25.txt**
Output Set: **N:\CRF4\07292004\J820155.raw**

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:4011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:9259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0
L:11454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:80
L:11458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:96
L:11462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:112